

**MONTHLY REPORT OF HYDROLOGIC CONDITIONS**

REPORT FOR:  
MONTH YEAR  
June 2010

TO: Hydrologic Information Center, W/OS31  
NOAA's National Weather Service  
1325 East West Highway  
Silver Spring, MD 20910-3283

SIGNATURE  
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DATE  
07/30/2010

*When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).*

☐ An X inside this box indicates that no flooding occurred within this hydrologic service area.

Summary: The San Juan ASOS reported 9.23 inches of rain for the month of June; 5.71 inches greater than the normal of 3.52 inches. The ASOS rainfall report from Cyril E. King Airport in St. Thomas was 9.51 inches for the month of June; 7.16 inches greater than the normal of 2.35 inches.

After June 8<sup>th</sup>, tropical waves and upper level troughs dominated the weather pattern, producing widespread showers and thunderstorms across the local islands. By the end of the month, the widespread heavy rains dried out, and shower and thunderstorm activity shifted to a more typical pattern of daily activity confined mostly to western portions of Puerto Rico. ... The highest 24-hour precipitation total across Puerto Rico for the month of June was 5.11", which fell in Trujillo Alto over the 24 hour period ending at 8am June 15<sup>th</sup>. The highest weekly rainfall across Puerto Rico occurred in San Lorenzo, where 10.55" of rain accumulated the week ending June 25<sup>th</sup>. Across the U.S. Virgin Islands, the highest 24-hour precipitation total fell at the Christiansted Airport on Saint Croix, where a [record 3.94"](http://www.srh.noaa.gov/sju/?n=jun2010cr) fell over the 24 hour period ending at midnight on June 20<sup>th</sup>. For the week ending June 25<sup>th</sup>, 6.91" of rain fell at the Cyril E. King Airport on Saint Thomas, representing the highest weekly rainfall across the U.S. Virgin Islands for the month of June. *(Excerpts from SJU's climate reports ... for more local climate details ... see <http://www.srh.noaa.gov/sju/?n=jun2010cr>)*

In Puerto Rico, the most impacted basins from the heavy rainfall during the month of June were Rio Grande de Manati, Rio Grande de Arecibo and the basins in Northeastern Puerto Rico including the Rio Blanco and Rio Fajardo. Along with these basins, were the basins that have recurring flooding almost monthly from any heavy rainfall event ... includes but not limited to, the Rio Cibuco in Vega Baja and the Rio Piedras at Hato Rey in the San Juan Metropolitan Area.

The table below gives a good synopsis of the type of flooding that occurred during the month of June from the runoff generated by the heavy rainfall. It is important to note that the Carraizo Dam is instrumental in mitigating much of the runoff in the Rio Grande de Loiza from the municipalities of Trujillo Alto downstream to Loiza ... as was again the case during the month of June.

In the U.S. Virgin Islands, the flood reports were sparse and seemed limited to moderate urban and poor drainage flooding including ponding of water on roadways and some

minor landslides. Much of the rainfall at the beginning of the month was welcome since the population depends on water collection cisterns for domestic water supply.  
(see the LSR and E3 flood stage reports for details)

LSRs for the month of June				
The most significant events are posted below.				
0736 AM 06/19/2010	FLASH FLOOD	TOA ALTA TOA ALTA	18.39N 66.25W PR LAW ENFORCEMENT	HOUSE FLOOD IN URB TOA ALTA HEIGHT, CALLE 24, HOUSE NUMBER AK-2. NO INJURIES.
0940 AM 06/19/2010	FLASH FLOOD	S SAN JUAN SAN JUAN	18.41N 66.06W PR EMERGENCY MNGR	CUPEY ALTO ROAD 176 IMPASSABLE FROM RIO PIEDRAS TOWARDS CAGUAS
0940 AM 06/19/2010	FLASH FLOOD	HUMACAO HUMACAO	18.15N 65.82W PR EMERGENCY MNGR	ROAD 403 IMPASSABLE AT PUNTA SANTIAGO, HUMACAO
0940 AM 06/19/2010	FLASH FLOOD	LARES LARES	18.30N 66.88W PR EMERGENCY MNGR	ROAD 192 IN LARES IMPASSABLE
0639 AM 06/19/2010	FLOOD	NAGUABO NAGUABO	18.21N 65.74W PR EMERGENCY MNGR	ROADS 951...ROAD 192...AND ROAD 30 WERE REPORTED FLOODED UE TO RIO BLANCO OUT OF ITS BANKS.
1114 AM 06/19/2010	FLASH FLOOD	FAJARDO FAJARDO	18.33N 65.66W PR TRAINED SPOTTER	RIO FAJARDO OUT OF ITS BANK AT END OF ROAD 3, REACHING HIGHWAY TOWARDS CEIBA, NOT PASSABLE
1021 PM 06/23/2010	FLASH FLOOD	PONCE PONCE	17.99N 66.61W PR EMERGENCY MNGR	INABON RIVER OUT OF ITS BANKS IN PONCE WITH HIGHWAY 1 FLOODED.

0805 PM 06/26/2010	FLOOD	HORMIGUEROS MAYAGUEZ	PR	18.14N 67.12W EMERGENCY MNGR
ROAD 114 LA EURECA SECTOR WAS FLOODED.				
0624 PM 06/27/2010	FLOOD	VEGA ALTA VEGA ALTA	PR	18.42N 66.32W EMERGENCY MNGR
ROAD 620 WAS IMPASSABLE DUE TO RIO CIBUCO OUT OF ITS BANKS.				
0718 PM 06/28/2010	FLASH FLOOD	VEGA ALTA VEGA ALTA	PR	18.42N 66.32W EMERGENCY MNGR
ROADS 676 IN BAJURAS SECTOR AND ROAD 690 WITH INTERSECTION WITH ROAD 2 WERE IMPASSABLE DUE TO RIO CIBUCO OUT OF ITS BANKS.				

The approximate amounts of Hydrologic Products issued during the month of June are as follows:

**Table 1 - Hydrologic Products Issued**

Non-Routine Hydrologic Products Issued:	Approximate number of Products for the month
Hydrologic Outlooks (SJUESFSJU)	0
Flood Watches (SJUFFASJU)	11
Flood Warnings (SJUFLWSJU)	4
Flash Flood Warnings (SJUFFWSJU)	15
Flash Flood Statements (SJUFFSSJU)	13
Urban/Small Stream Flood Advisories (SJUFLSSJU)	169

For monthly "radar totals" use the archive of the Advanced Hydrologic Prediction Service (AHPS) - click on Puerto Rico and request the duration you would like to view...daily or monthly remembering that the 24 hour totals are from 12z – 12z (8am to 8am in PR) - [AHPS archive of radar totals/ images](#) . Here are the [June 2010 totals](#).